

ABSTRACT OF THE DISCLOSURE

A dispersion fluid filtration and delivery apparatus and method are provided for filtering a dispersion fluid from a storage vessel and delivering a filtrate thereof to a filtrate using operation. The dispersion fluid filtration and delivery apparatus for the method includes (a) a filter device having an inlet port, a first outlet port for connecting to the storage vessel, and a second outlet port for connecting to the filtrate using operation; (b) an inlet pump connected between the inlet port and the storage vessel for pumping a first quantity Q_{in} of dispersion fluid into the filter device; and (c) an outlet pump connected between the first outlet port and the storage vessel for pumping a second quantity Q_{out} of dispersion fluid from the filter device back into the storage vessel. The outlet pump and the inlet pump are sized and controlled so that Q_{out} is less than Q_{in} , and so that the resulting filtrate flow Q_r from the filter device through the second outlet port to the filtrate using operation is equal to $Q_{in} - Q_{out}$.